

§ 95.15-40

(c) Means shall be provided for closing all other openings to the space protected from outside such space. In this respect, relatively tight doors, shutters, or dampers shall be provided for openings in the lower portion of the space. The construction shall be such that openings in the upper portion of the space can be closed off either by permanently installed means or by the use of canvas or other material which is normally carried by the vessel.

**§ 95.15-40 Pressure relief.**

(a) Where necessary, relatively tight compartments such as refrigeration spaces, paint lockers, etc., shall be provided with suitable means for relieving excessive pressure accumulating within the compartment when the carbon dioxide is injected.

**§ 95.15-90 Installations contracted for prior to November 19, 1952.**

(a) Installations contracted for prior to November 19, 1952, shall meet the following requirements:

(1) Existing arrangements, materials, and facilities previously approved shall be considered satisfactory so long as they meet the minimum requirements of this paragraph and they are maintained in good condition to the satisfaction of the Officer in Charge, Marine Inspection. Minor repairs and alterations may be made to the same standards as the original installation.

(2) The details of the systems shall be in general agreement with §§ 95.15-5 through 95.15-40 insofar as is reasonable and practicable, with the exception of § 95.15-5(e) (1), (2) and (4) covering spaces other than cargo spaces, which systems may be installed in accordance with paragraphs (a) (3) through (6) of this section.

(3) In boilerrooms, the bilges shall be protected by a system discharging principally below the floor plates. Perforated pipe may be used in lieu of discharge nozzles for such systems. The number of pounds of carbon dioxide shall be equal to the gross volume of the boilerroom taken to the top of the boilers divided by 36. In the event of an elevated boiler room which drains to the machinery space, the system shall be installed in the engine room bilge and the gross volume shall be taken to

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the flat on which the boilers are installed.

(4) In machinery spaces where main propulsion internal combustion machinery is installed, the number of pounds of carbon dioxide required shall be equal to the gross volume of the space taken to the under side of the deck forming the hatch opening divided by 22.

(5) In miscellaneous spaces other than cargo or main machinery spaces the number of pounds of carbon dioxide required shall be equal to the gross volume of the space divided by 22.

(6) Branch lines to the various spaces other than cargo and similar spaces shall be as noted in Table 95.15-90(a)(6). This table is based on cylinders having discharge outlets and siphon tubes of 3/8 inch diameter.

TABLE 95.15-90(A)(6)

| Number of cylinders |          | Nominal pipe size, inches |
|---------------------|----------|---------------------------|
| Over                | Not over |                           |
|                     | 2        |                           |
| 2                   | 4        |                           |
| 4                   | 6        | 1—extra heavy.            |
| 6                   | 12       | 1¼—extra heavy.           |
| 12                  | 16       | 1½—extra heavy.           |
| 16                  | 27       | 2—extra heavy.            |
| 27                  | 39       | 2½—extra heavy.           |
| 39                  | 60       | 3—extra heavy.            |
| 60                  | 80       | 3½—extra heavy.           |
| 80                  | 104      | 4—extra heavy.            |
| 104                 | 165      | 5—extra heavy.            |

**Subpart 95.17—Foam Extinguishing Systems, Details**

**§ 95.17-1 Application.**

(a) Where a foam extinguishing system is installed, the provisions of this subpart, with the exception of § 95.17-90, shall apply to all installations contracted for on or after November 19, 1952. Installations contracted for prior to November 19, 1952, shall meet the requirements of § 95.17-90.

**§ 95.17-5 Quantity of foam required.**

(a) *Area protected.* (1) For machinery and similar spaces, the system shall be so designed and arranged as to spread a blanket of foam over the entire tank top or bilge of the space protected. The arrangement of piping shall be such as to give a uniform distribution over the entire area protected.